



# Advanced Structural Inorganic Chemistry (International Union of Crystallography Texts on Crystallography)

By Wai-Kee Li, Gong-Du Zhou, Thomas Mak

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A revised and updated English version of a postgraduate textbook based on teaching. The term "inorganic" is used in a broad sense as the book covers the structural chemistry of representative elements (including carbon) in the Periodic Table, organometallics, coordination polymers, host-guest systems and supramolecular assemblies.

Part I of the book reviews the basic bonding theories, including a chapter on computational chemistry. Part II introduces point groups and space groups and their chemical applications. Part III comprises a succinct account of the structural chemistry of the elements in the periodic table. It presents structure and bonding, generalizations of structural trends, crystallographic data, as well as highlights from the recent literature.

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#### Review

‘This book will go a long way in improving the understanding of modern chemical crystallography among the general chemistry community.’

Gautam R. Desiraju, University of Hyderabad

‘The book has quite a nice focus bringing together both theoretical and practical aspects of bonding and structure and blending these with crystal data. It is very well written, in an interesting way, and strikes a nice level - deliberately not going too deep, but putting various approaches in context.

‘

Ted Baker, University of Auckland

‘The writing is good and clear. The book should have a considerable market. There is a need for an advanced treatment such as this.

‘

Mike Glazer, University of Oxford

#### About the Author

Professor Wai-Kee Li, Department of Chemistry, The Chinese University of Hong Kong

Wai-Kee Li obtained his B.S. degree from University of Illinois in 1964 and his Ph.D. degree from University of Michigan in 1968. He joined The Chinese University of Hong Kong in July, 1968 and is now Professor of Chemistry. He has taught a variety of courses in physical and inorganic chemistry and won many teaching awards. His research interests in theoretical and computational chemistry have led to about 180 papers in international journals. Gong-Du Zhou, Professor Emeritus, Department of Chemistry, Peking University

Gong-Du Zhou graduated from Xichuan University in 1953 and completed his postgraduate studies at Peking University in 1957. He then joined the Chemistry Department of Peking University and taught "Structural Chemistry" there till his retirement in 1992. His research interests lie in X-ray crystallography and structural chemistry. He has published over 100 research papers, together with over a dozen Chinese chemistry textbooks and reference books.

Professor Thomas Chung Wai Mak, Department of Chemistry, The Chinese University of Hong Kong

Thomas C. W. Mak obtained his B.Sc. (1960) and Ph.D. (1963) degrees from The University of British Columbia. After working as a NASA Postdoctoral Research Associate at The University of Pittsburgh and an Assistant Professor at The University of Western Ontario, in June 1969 he joined The Chinese University of Hong Kong, where he is now Wei Lun Research Professor in the Department of Chemistry. His research interest lies in inorganic synthesis, chemical crystallography, crystal engineering and supramolecular assembly, with over 900 papers in international journals. He was elected as a member of the Chinese Academy of Sciences in 2001.

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